

CLAIMS

1. Oral care composition comprising a polymer obtainable by copolymerising a mixture of comonomers, said mixture comprising:

(a) a cationic monomer selected from (ar-vinylbenzyl) trimethylammonium chloride, (dimethylaminopropyl) methacrylamide, [2(methacryloyloxy)ethyl]trimethylammonium chloride, 2-aminoethylmethacrylate hydrochloride and mixtures thereof; and

(b) at least one anionic or neutral monomer selected from styrene, mono-2-(methacryloyl)ethyl succinate, vinyl acetate, N,N-dimethylacrylamide, 2-ethylhexylacrylate, vinylphosphonic acid, acrylic acid, 2-acrylamido-2-methyl-1-propanesulfonic acid, N-[tris(hydroxymethyl)methyl] acrylamide, N-vinylpyrrolidone, butyl acrylate, 2-hydroxyethylacrylate, polyethyleneglycol methylethermethacrylate and mixtures thereof,

said oral care composition in the form of any one of a toothpaste, gel, foam, chewing gum, deformable strip or mouthwash and which is suitable for use in the oral cavity.

2. Oral care composition according to claim 1, comprising a polymer obtainable by copolymerising a mixture of (ar-vinylbenzyl)trimethylammonium chloride, styrene and a further neutral comonomer selected from N-[tris(hydroxymethyl)methyl] acrylamide and N-vinylpyrrolidone.

3. Oral care composition according to claim 1 or 2, comprising a polymer obtainable by copolymerising a mixture of (dimethylaminopropyl) methacrylamide with anionic and/or neutral comonomers selected from mono-2-(methacryloyl)ethyl succinate, vinyl acetate, butyl acrylate, N-[tris(hydroxymethyl)methyl] acrylamide and mixtures thereof.

4. Process for preparing an oral care composition according to any one of claims 1 to 3, comprising the steps of:

preparing a mixture of comonomers as defined in any one of claims 1 to 3 in an ethanol/water diluent;

polymerising the mixture by heating it under inert gas in the presence of an initiator;

extracting the polymer so obtained and blending it with one or more oral care actives and/or excipients so as to produce an oral care composition which is in the form of any one of a toothpaste, gel, foam, chewing gum, deformable strip or mouthwash and which is suitable for use in the oral cavity.